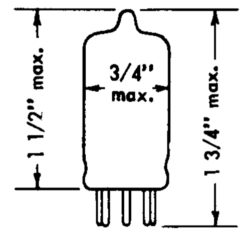
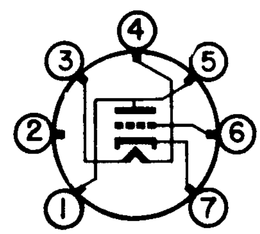
TRIODE

TYPE 6C4W

The 6C4W is a heater-cathode type medium-mu triode of miniature construction, suitable for use as a class C amplifier and oscillator. It is designed for dependable operation under conditions of shock and vibration usually found in mobile and aircraft applications.





BOTTOM VIEW

6BG

MECHANICAL DATA

ENVELOPE: T-5½ Glass
BASE: Miniature Button 7-Pin
TERMINAL CONNECTIONS:

Pin 1 Plate	Pin 5 Plate
Pin 2 Internal Connection	Pin 6 Grid
Pin 3 Heater	Pin 7 Cathode
Pin 4 Heater	

MECHANICAL RATINGS:

Maximum Impact Acceleration (Note 1)	450 G
Minimum Intermittent Heater Voltage Cycles (Note 2)	2000

MOUNTING POSITION: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS:

Heater Voltage	6.3±10% volts
Heater Current	0.15 amps.
Heater-Cathode Voltage:	
Heater Negative with respect to Cathode	100 volts
Heater Positive with respect to Cathode	100 volts

DIRECT INTERELECTRODE CAPACITANCES: (μμfds.)

	With Shield *	Without Shield
Grid to Plate	1.8	1.8
Input	1.8	1.7
Output	2.0	1.1

RATINGS-ABSOLUTE MAXIMUM VALUES:

	Class A1 Amplifier	Class C Amplifier	
Plate Voltage	330	330	volts
Grid Voltage	-55	-55	volts
Plate Current	----	28	ma.
Grid Current	----	9	ma.
Plate Dissipation	3.8	5.5	watts
Minimum External Grid-Bias Voltage	0	----	volts
Grid Circuit Resistance:			
Fixed Bias	0.25	0.25	meg.
Cathode Bias	1.0	1.0	meg.

CHARACTERISTICS AND TYPICAL OPERATION - CLASS A1 AMPLIFIER:

Plate Voltage	100	250	volts
Grid Voltage	0	-8.5	volts
Plate Resistance	5900	7700	ohms
Transconductance	3300	2200	μmhos
Amplification Factor	19.5	17.0	
Plate Current	11.8	10.5	ma.

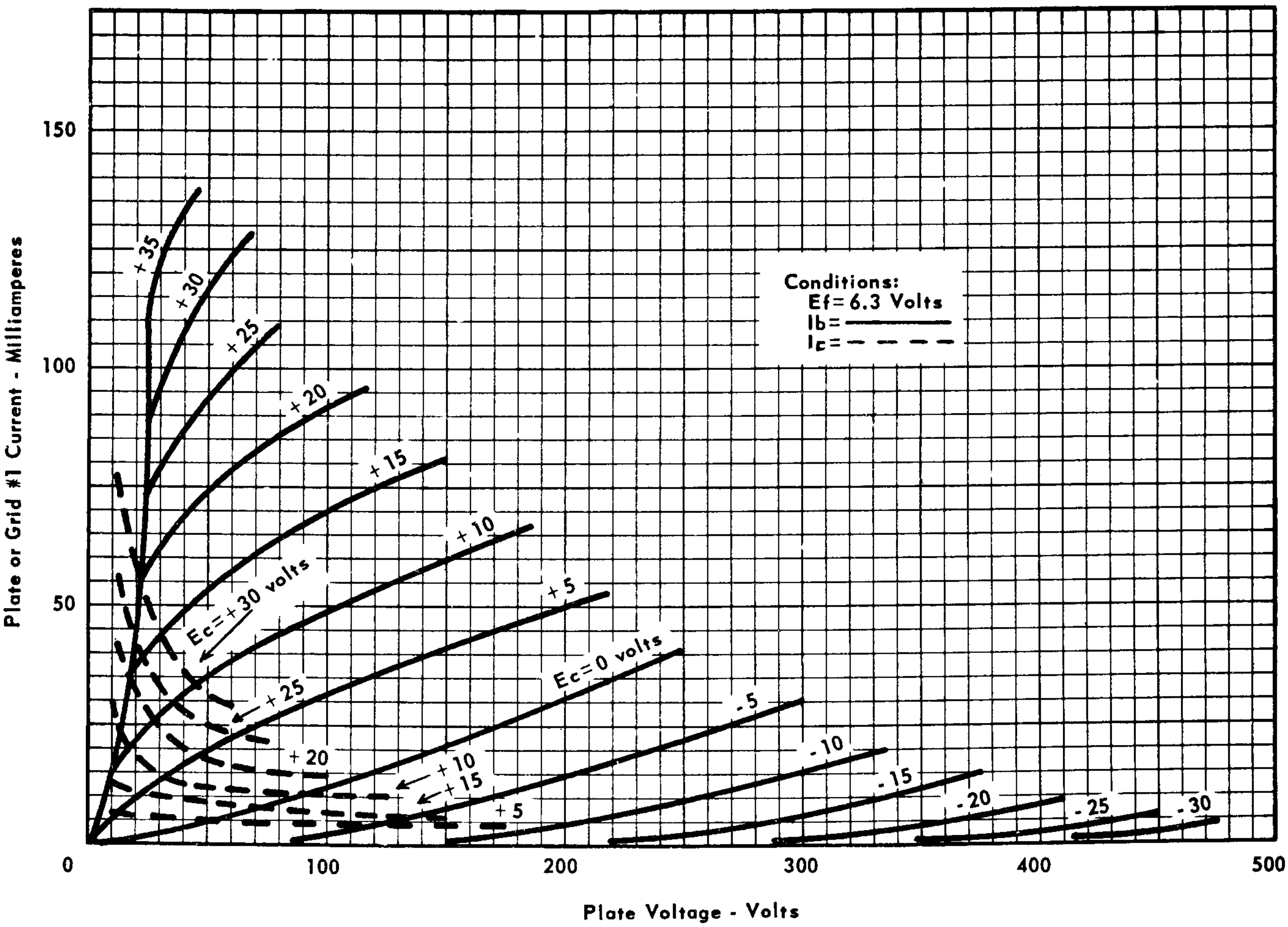
* *External shield #316 connected to pin.*

Note 1: Forces in any direction as applied by the Navy type High Impact Machine for Electronic Devices.

Note 2: As checked at Ef= 7.5 volts ac, on one minute and off one minute.

TRIODE

AVERAGE PLATE CHARACTERISTICS

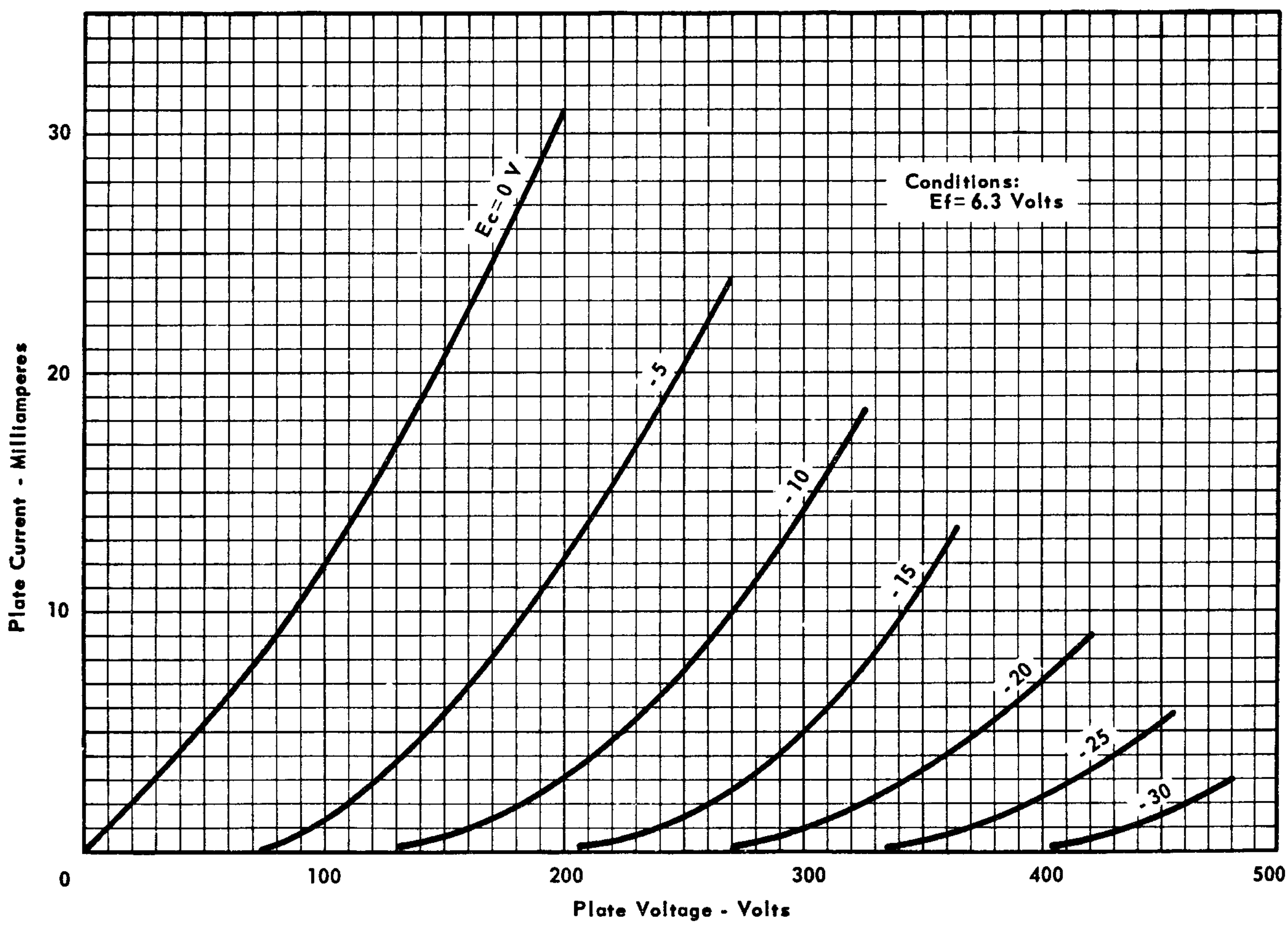


RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS

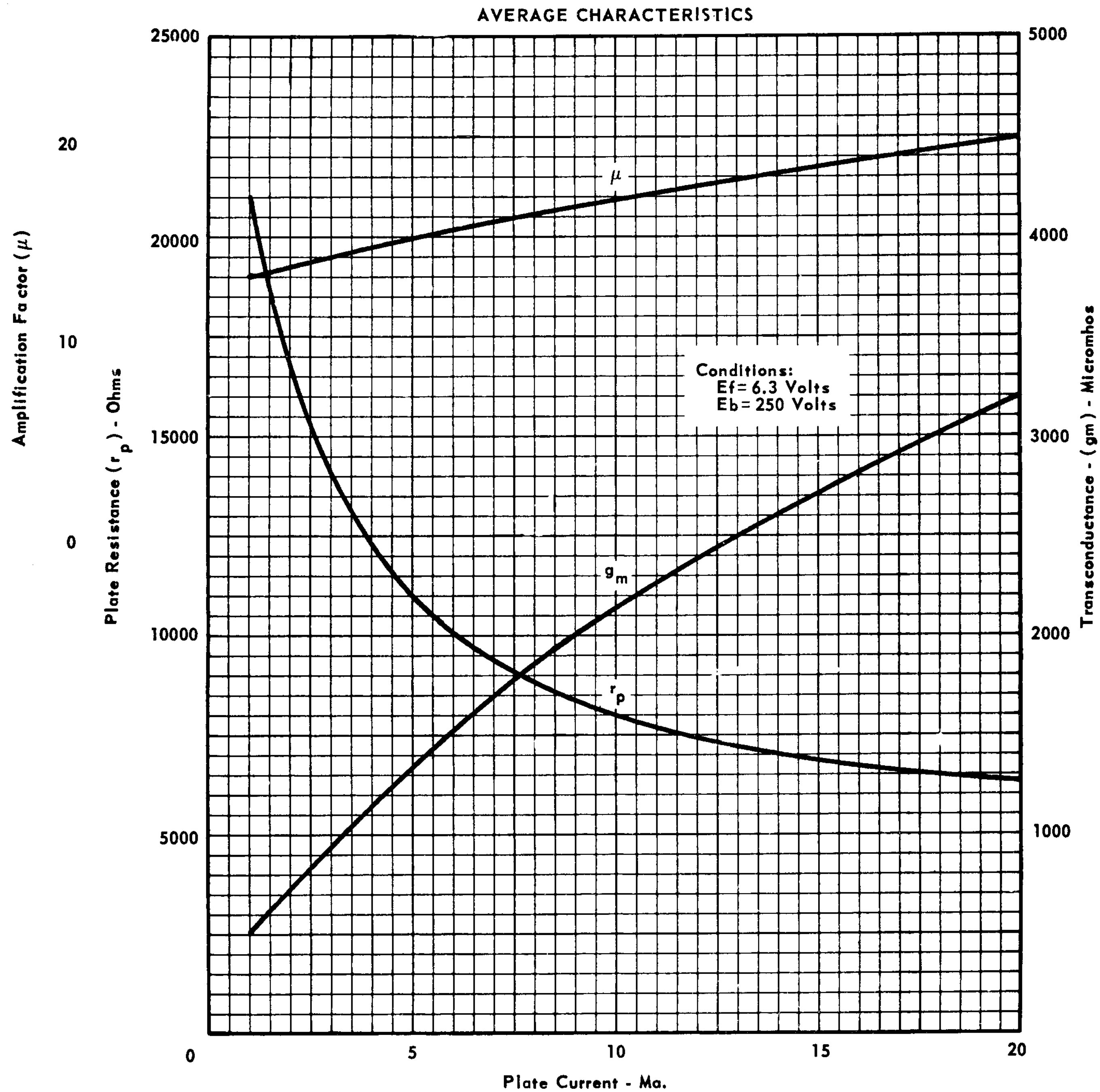
TRIODE

AVERAGE PLATE CHARACTERISTICS



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TRIODE



TRIODE

AVERAGE CHARACTERISTICS

